

**01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ**

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°28'08", long 74°41'33" referenced to North American Datum of 1983, Hamilton Township, Atlantic County, NJ, Hydrologic Unit 02040302, at bridge on U.S. Route 322 (Black Horse Pike), 1.1 mi east from intersection of State Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 27, 2007	5.54
Feb 19, 2008	24.5
May 29, 2008	8.70
Aug 26, 2008	1.79

## 01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft <sup>3</sup> /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)
Nov 27...	1120	5.5	.6	.135	.110	760	8.2	75	4.9	51	13.0	11.6	8
Feb 19...	1030	25	2.8	.481	.365	759	9.6	79	4.0	122	4.5	6.8	11
May 29...	1150	8.7	.9	.409	.319	765	8.8	82	4.3	77	23.0	12.5	8
Aug 26...	1140	1.8	1.2	.084	.069	763	6.2	64	4.9	44	23.0	17.5	7

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 27...	1.41	1.16	.78	4.10	<1.7	8.10	<.12	9.4	3.90	--	39	1	.18
Feb 19...	2.24	1.35	.85	11.4	--	18.5	<.12	6.2	13.2	--	70	2	.35
May 29...	1.41	1.03	.74	6.39	--	12.3	<.12	5.5	4.59	--	35	<1	.28
Aug 26...	1.12	1.14	.75	3.40	E3	7.03	<.12	6.5	2.73	E28	25	3	.16

## 01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
<b>Nov</b> <b>27...</b>	.030	.78	<.04	.97	--	E.004	E.005	E.008	.2	<.04	.2	2.9	8.6
<b>Feb</b> <b>19...</b>	.012	.37	.08	.72	.80	E.006	.009	.018	.8	E.1	.7	10.8	14
<b>May</b> <b>29...</b>	.014	.51	<.04	.79	--	E.003	E.007	.009	.2	<.04	.2	8.8	12
<b>Aug</b> <b>26...</b>	.046	.78	E.02	.94	E.96	E.010	.011	.010	.3	<.04	.3	1.4	7.4